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近20年来从事生药学/天然药物化学等领域的研究工作,参与了生药学等领域多个国家及省部级课题(如85 国家重点科技攻关项目一常用中药材品种整理和质量研究,科技部中药材标准化研究课题)的研究,主持实施和参与了国家自然科学基金面上项目、联合基金项目、广东省自然科学基金团队项目、厅级课题的研究工作,在中草药化学、微生物代谢产物及海洋天然产物等研究领域都有涉及。先后对10余种中草药、8种海绵及一些微生物培养物进行了活性化学成分的研究,分离鉴定了300多个化合物,发现了近60余个新化合物和一系列抗肿瘤、抗真菌等生物活性化合物。至今,已发表论文170余篇,其中发表在JACS(美国化学会志)、JOC、JNP等各种国际性专业期刊的SCI论文70余篇。参编专著和教材两部。现为Medicinal Crops杂志、《天然产物研究与开发》杂志编委,为Chemical & Pharmaceutical Bulletin、Natural Products Research、Chemical Research in Chinese Universities、等国内外多个杂志审稿人。目前,承担国家自然科学基金项目和厅级项目各一项,并参与承担省自然科学基金团队项目、国家发改委和科技部项目各一项的研究工作。在教学上承担本科生、研究生课程教学工作,指导博士生、硕士生和本科学位论文研究。

学习经历:

1996 - 1999 中国协和医科大学药物化学专业天然药物化学方向博士

1987 - 1989 江西中医学院中药专业中药资源学方向硕士

1981 - 1985 安徽中医学院药学专业本科

工作经历:

2004年 - 现在 暨南大学生药学教研室主任,教授,硕士、博士生导师

2000 - 2002年 美国亚利桑那大学农学和生命科学学院西南天然产物研究与产业化中心,从事土壤微生物和沙漠植物抗肿瘤天然产物博士后研究

2002 - 2003 美国加州大学戴维斯分校化学系,从事抗肿瘤、抗真菌海洋天然产物博士后研究

1999 - 2000 中国医学科学院药物研究所天然药物化学研究室,副研究员

1989 - 1996 江西省中医药研究所中药研究室,助理研究员

1985 - 1987 皖南医学院,助教

研究方向:

主要从事海洋微生物、中草药中抗肿瘤、抗真菌、抗糖尿病等多方面生物活性天然产物的发现与结构及活性研究;从事中药新产品的研制与开发;从事中药资源的品质评价和开发研究。

正在开展的科研项目:

(1) 国家自然科学基金面上项目(项目批准号: 81573578): 地骨皮中氮杂糖类成分的抗糖尿病作用、机理和构效关系研究 (2016.1-2019.12), 主持。65.2万元

(2) 广东省自然科学基金团队项目 (2015A030312002): 作物细菌性软腐病菌致病的分子机制 (团队核心成员,2016.1-2020.12), 60.0/300.0万元

(3) 国家中医药局 中药质量标准库项目-化学成分库(子项目, 2016.1-2018.12), 12.0万元

(4) 广州市产学研协同创新重大专项, 具有作物细菌性软腐病生物膜抑制活性海洋放线菌筛选及鉴定新化合物的技术研究 (2017.05.01-2020.5.1), 30.0万元。

(5) 科技部国家重点研发计划项目中医药现代化研究专项, 厄瓜多尔亚马逊地区药用植物国际合作开发研究—课题1. 亚马逊地区药用植物的资源调查和保护 (2017.11-2021.12),184.0 万元。

主要论文:

在国内外重要专业刊物如“Journal of Organic Chemistry”, “JACS”、“Journal of Natural Products”, “Chem. Pharm. Bull.”、“Journal of Asia Natural Products Research” 等上发表研究性论文170余篇,其中近70篇为SCI论文。

近5年来发表的SCI论文:

1. Shu Weihu, Zhou Guangxiong*, Ye Wencai. Two new steroidal glycosides from Solanum torvum. Natural Product Research, 2013, 27 (21): 1982-1986.
2. Zhu Ling-hua, Chen Cheng, Wang Hui, Ye Wen-cai, Zhou Guang-xiong*. Alocasins A-E: five novel indole alkaloids from the Alocasia macrorrhiza (L.) Schott. Chem. Pharm. Bull., 2012, 60 (5): 670-673.
3. Wei Liu-bin, Ye Wen-cai, Yao Xin-sheng, Zhou Guang-xiong. Three New Cycloartane Glycosides from Nervilia fordii (Hance) Schltr. Journal of Asian Natural Products Research, 2012, 14 (6): 521-527.
4. Wu Peng, Li Xiao-Guang, Liang Ning, Wang Guo-Cai, Ye Wen-Cai, Zhou Guang-Xiong *, Li Yao-Lan*. Two new sesquiterpene lactones from the supercritical fluid extract of Centipeda minima. Journal of Asian Natural Products Research, 2012, 14(6) : 515-520. (http://dx.doi.org/ 10.1080/ 10286020.2012.670222)
5. Wei-Huan Huang, Guang-Xiong Zhou, Guo-Cai Wang, Hau-Yin Chung, Wen-Cai Ye and Yao-Lan Li* A new biflavonoid with antiviral activity from the roots of Wikstroemia indica. Journal of Asian Natural Products Research, 2012, 14(4): 401-406.
6. Liu-Bin Wei, Hong-Er Yuan, Jin-Man Chen, Qing-Qing Wang, Hui Wang, Wen-Cai Ye, Guang-Xiong Zhou* Five New Cycloartane-type Triterpenoid Saponins from Nervilia fordii. Helvetica Chimica Acta, 2013, 96 (1): 150-157.
7. Jian Zhong Yu, Xian-Lin Wu, Bin Yu, Cong-qi Dai, Kang-Li Liu, Guo-Qiang Qian, Guang Xiong Zhou, Su H. Lu, Ju, Da H. Xiao Y. Chen, The suppression effects of desacetylauricin on hepatocellular carcinoma and its possible mechanism, Pharmacognosy Magazine, 2012, 8 (31): 225-230.
8. Jin-Man Chen, Liu-Bin Wei, Chuan-Li Lu, Guang-Xiong Zhou*. A flavonoid 8-C-glycoside and a triterpenoid cinnamate from Nerviliae fordii, Journal of Asian Natural Products Research, 2013, 15 (10): 1088-1093.
9. Chun Wu, Ying-Hui Duan, Xia Wu, Guo-Cai Wang, Wen-Cai Ye, Guang-Xiong Zhou*, Yao-Lan Li*. Triterpenoid Saponins from Schefflera heptaphylla (L.) Frodin, Planta Medica, 2013, 79: 1348-1355.
10. Chun Wu, Chun-Shan Wei, Shao-Fu Yu, Yao-Lan Li, Wen-Cai Ye, Guang-Dong Tong*, Guang-Xiong Zhou*. Two new acetylated flavonoid glycosides from Phyllanthus urinaria. Journal of Asian Natural Products Research, 2013, 15(7): 703-707.
11. Fang-min Qin, Ling-jie Meng, Hui-liang Zou, Guang-xiong Zhou*. Three new iridoid glycosides from the fruit of Gardenia jasminoides var. radicans Makino. Chem. Pharm. Bull., 2013, 61 (10): 1071-1074.
12. Chun Wu, Ying-Hui Duan, Wei Tang, Man-Mei Li, Xia Wu, Guo-Cai Wang, Wen-Cai Ye, Guang-Xiong Zhou*, Yao-Lan Li*. New ursane-type triterpenoid saponins from the stem bark of Schefflera heptaphylla, Fitoterapia, 2013, 92: 127-132.
13. Jun-Yi Xue, Guang-Xiong Zhou, Tianfeng Chen*, Si Gao, Mei-Yuk Choi, and Yum-Shing Wong. Desacetylauricin Induces S Phase Arrest in SW480 Colorectal Cancer Cells Through Superoxide Overproduction. Journal of Cellular Biochemistry, 2014, 115: 464-475.
14. Bi-Ling Wu, Hui-Liang Zou, Fang-Min Qin, Hong-Yu Li, Guang-Xiong Zhou*. New Ent-Kaurane-Type Diterpene Glycosides and Benzophenone from Ranunculus muricatus Linn. Molecules, 2015, 20: 22445-22453.
15. Qingqing Wang, Chun Wu, Ying Zhang, Bai-Lian Liu, Guangxiong Zhou* Two new flavonoids and a new Lignan glycoside from Rhododendron seniavinii Maxim. J. Asian Nat. Prod. Res, 2015, 17 (7): 778-782 (http://dx.doi.org/10.1080/10286020.2014.989222) .
16. Fang-min Qin, Bai-lian Liu, Ying Zhang, Guang-xiong Zhou*. A new triterpenoid from the fruits of Gardenia jasminoides var. radicans Makino, Natural Products Research, Online on12 January, 2015, 29(7): 633-637 (http://dx.doi.org/10.1080/14786419.2014.980249).
17. Shao-Fu Yu, Shu-Na Fu, Bai-Lian Liu, and Guang-Xiong Zhou*, Two quercetin glycoside derivatives from the fruits of Gardenia jasminoides var. radicans, Natural Products Research, 2015, 29(14): 1336-1341 (http://dx.doi.org/ 10.1080/14786419.2014.1001389).
18. Hui-Liang Zou, Hong-Yu Li, Bai-Lian Liu, Guang-Xiong Zhou*. A new cytotoxic benzophenanthridine isoquinoline alkaloid from the fruits of Macleaya cordata, J. Asian Nat. Prod. Res, 2015, 17(8): 856-860 (http://dx.doi.org/ 10.1080/10286020.2015.1016000).
19. Chun Wu, Rong-Liu Zhang, Hong-Yu Li, Chen Hu, Bai-Lian Liu, Yao-Lan Li*, Guang-Xiong Zhou* Triterpenoid saponins from the root bark of Schima superba and their cytotoxic activity on B16 melanoma cell line. Carbohydrate, 2015, 413: 107-114.
20. Shao-Fu Yu, Xiao-Jun Huang, Shu-Na Fu, Chun Wu, Wen-cai Ye, Guang-Xiong Zhou*. New Iridoid and Monoterpenoids from the Fruits of Gardenia jasminoides var. radicans. Helvetica Chimica Acta, 2015, 98(9): 1267-1272.
21. Fang-Yuan Shao*, Sheng Wang*, Hong-Yu Li*, Wen-Bo Chen, Guo-Cai Wang, Dong-Lei Ma, Nai Sum Wong, Hao Xiao, Qiu-Ying Liu, Guang-Xiong Zhou, Yao-Lan Li, Man-Mei Li, Yi-Fei Wang, Zhong Liu. EM23, a natural sesquiterpene lactone, targets thioredoxin reductase to activate JNK and cell death pathways in human cervical cancer cells. Oncotarget, 2016, 7 (6): 6790-808.
22. Yang-Mei Zhang, Hong-Yu Li, ChenHu, Hui-fan Sheng, Ying Zhang, Bi-run Lin, Guang-Xiong Zhou*. Ergosterols from the culture broth of marine Streptomyces sanandii H41-59. Marine Drugs, 2016, 14: 84.
23. Shuna Fu, Fan Wang, Hongyu Li, Yixuan Bao, Yu Yang, Huifang Shen, Birun Lin, Guangxiong Zhou*. Secondary metabolites from marine-derived Streptomyces antibioticus strain H74-21. Natural Product Research, 2016, 30(21), 2460-2467.
24. Li H Y#, Li M M#, Wang G C, Shao F Y, Chen W B, Xia C, Wang S, Li Y L*, Zhou G X*, Liu Z*. EM23, A Natural Sesquiterpene Lactone from Elephantopus mollis, Induces Apoptosis in Human Myeloid Leukemia Cells through Thioredoxin- and Reactive Oxygen Species-Mediated Signaling Pathways. Front Pharmacol, 2016, 7: 77.
25. Wang Fan, Fu Shu-Na, Bao Yi-Xuan, Yang Yu, Shen Hui-Fang, Lin Bi-Run and Zhou Guang-Xiong*. Kitamycin C, a new antimycin-type antibiotic from Streptomyces antibioticus strain 200-09. Natural Product Research, 2017, 31(15): 1819-1824 (http://dx.doi.org/10.1080/14786419.2017.1295240).
26. Hu Chen, Zhou Shi-Wen, Chen Fang, Zheng Xin-Heng, Shen Hui-Fang, Lin Bi-Run and Zhou Guang-Xiong*. Neoantimycins A and B, Two Unusual Benzamido Nine-Membered Dilactones from Marine-Derived Streptomyces antibioticus H12-15. Molecules 2017, 22: 557 (doi:10.3390/molecules22040557).
27. Xian-Sheng Li, Xin-HengZheng, Fang Chena, Bi-RunLin, Guang-Xiong Zhou*. A newsecondary metabolite from the fermented mycelia of Streptomyces antibiotici H41-55. Journal of Asian Natural Products Research, (Ahead of Print, DOI: 10.1080/10286020.2017.1349758).
28. Yang-Mei Zhang, Bai-Lian Liu, Xin-Heng Zheng, Xiao-Jun Huang, Hong-Yu Li, Ying Zhang, Ting-Ting Zhang, Da-Yuan Sun, Bi-run Lin, Guang-Xiong Zhou*. Anandins A and B, two rare steroidal alkaloids from a marine Streptomyces anandii H41-59. Marine Drugs, 2017: 15(11), On line.

讲授课程:

本科生课程: 《生药学》、《Pharmacognosy》、《中药鉴定学》

研究生课程: 《立体化学》

社会职务:

广东省药学会药学史专业委员会副主任委员

广东省食品药品监督管理局保健食品评审专家

广东省药物化学专业委员会委员

广东省中药与天然药物专业委员会委员

Medicinal Crops 杂志编委

《天然产物研究与开发》杂志编委

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